Title (en)

Process for manufacturing heat-insulating material based on silica fibres

Title (de)

Verfahren zur Herstellung eines Wärmeisolierungsmaterials aus Siliciumdioxidfasern

Title (fr)

Procédé de fabrication d'un matériau isolant thermique à base de fibres de silice

Publication

EP 0668252 B1 20000105 (FR)

Application

EP 95400299 A 19950214

Priority

FR 9401825 A 19940217

Abstract (en)

[origin: EP0668252A1] In the mfr. of silica fibre-based thermal insulation material by forming an aq. suspension of fibres, binder, boron-contg. sintering additive and a surfactant and then moulding a green body from the suspension with partial elimination of water, the novelty comprises: (a) pre-dispersing sprayed quartz fibres in water to form a uniform fluid suspension which is then moulded to form a green fibrous block with partial elimination of water; (b) dispersing the block in water and mixing with an aq. emulsion contg. an organosilicon binder, a boron-contg. sintering additive and a surfactant; (c) moulding a green body from the suspension with water removal by vacuum suction; (d) compressing the body to the desired height while drying at up to 300 degrees C; and (e) removing the compressive force and firing the body at high temp..

IPC 1-7

C04B 30/02

IPC 8 full level

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